

IL-1 alpha/IL-1A Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	Hematopoietin-1;IL-1 α ;IL-1 Alpha;Interleukin-1 α ;Interleukin-1 Alpha;IL1F1;IL1A
Protein Construction:	Ser113-Ala271
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01583
Molecular Weight:	20.95 kDa (predicted); 25-32 kDa (due to glycosylation)
AA Sequence:	Ser113-Ala271

QC Testing

Biological Activity:	Human IL-1R1, No Tag immobilized on CM5 Chip can bind Biotinylated Human IL-1 alpha, His-Avi Tag with an affinity constant of 1.01 μ M as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/ μ g as determined by LAL test.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-1 alpha (IL1 α) is a cytokine member of the interleukin-1 family. IL-1 consists of two distinct forms: IL1 α and IL1 β that recognize the same cell surface receptors but are distinct proteins with approximately 25% amino acid sequence identity. IL1 α is constitutively produced by epithelial cells and plays an essential role in maintenance of skin barrier function. Upon stimulation, a wide variety of cells including osteoblasts, monocytes, macrophages can be induced to express IL1 α . IL1 α possesses a wide range of metabolic, physiological,

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haematopoietic activities, and is critically involved in the regulation of the immune responses and inflammatory responses.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481